

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-008062**Date Inspected:** 24-Jul-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Li Ming, Chen Ying Xin.**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Tower**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Umesh D. Gaikwad was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

Bay 10 Square Connection Plate

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT reports for this date. The members are identified as Tower Components. The weld designations reviewed are as follows.

SD1-SA183-33M-1-1A/B

ND1-SA183-23M-3-1A/B

ND1-SA250-23M-2-1A/B

ND1-SA250-77M-2-1A/B

ND1-SA250-65M-1-1A/B

ND1-SA250-47.6M-2-1A/B

ND1-SA250-28M-1-1A/B

ND1-SA250-23M-1-1A/B

ND1-SA250-18M-2-1A/B

SD1-SA250-77M-1-1A/B

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SD1-SA250-53M-1-1A/B  
SD1-SA250-43M-1-1A/B  
SD1-SA250-28M-1-1A/B

Bay 10 North Tower Lift 4

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15% and Visual Testing (VT) of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT reports for this date. The members are identified as Tower Components. The weld designations reviewed are as follows.

Fit Lug on Skin C @ 13M, 15M, 18M 23M Diaphragm  
13M, 15M, 18M, 23M Diaphragm with Skin C

This Quality Assurance (QA) Inspector observed the following work in progress:

SMAW welding of weld joint 1B located on ND1-A5002-1.  
Welder is identified as 040450. ZPMC QC is identified as Mr. Yu Zhi Lai.  
The welding variables recorded by QC appeared to comply with WPS-B-T-3211-Tc-U5b-1.

FCAW welding of weld joint 53 located on NSD1-FBSA4-1A/C.  
Welder is identified as 066283. ZPMC QC is identified as Mr. Yang Ming Ming.  
The welding variables recorded by QC appeared to comply with WPS-B-T-2332-Tc-P5-F.

SMAW welding of weld joint 1B located on ED1-A5001-8.  
Welder is identified as 052493. ZPMC QC is identified as Mr. Yu Zhi Lai.  
The welding variables recorded by QC appeared to comply with WPS-B-T-3211-Tc-U5b-1.

FCAW welding of weld joint 80B located on SSD1-FCSA4-1B/C.  
Welder is identified as 066695. ZPMC QC is identified as Mr. Lu Wei Chao.  
The welding variables recorded by QC appeared to comply with WPS-B-T-2232-B-U3-F.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Serge Sinevod : 134-8257-0045, who represents the Office of Structural Materials for your project.

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**Inspected By:** Gaikwad,Umesh

Quality Assurance Inspector

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**Reviewed By:** Clifford,William

QA Reviewer